```
 3 <110> APPLICANT: COR Therapeutics, Inc.
 4         LAW, Deborah Ann
 5         PHILLIPS, David R.
 7 <120> TITLE OF INVENTION: Transgenic Mammals Expressing Mutant GPIIIa
 9 <130> FILE REFERENCE: 44481-5043-US
11 <140> CURRENT APPLICATION NUMBER: US 09/673,302A
12 <141> CURRENT FILING DATE: 2001-03-23
14 <150> PRIOR APPLICATION NUMBER: PCT/US99/08285
15 <151> PRIOR FILING DATE: 1999-04-15
17 <150> PRIOR APPLICATION NUMBER: US 60/115,516
18 <151> PRIOR FILING DATE: 1998-04-15
20 <160> NUMBER OF SEQ ID NOS: 8
22 <170> SOFTWARE: PatentIn version 3.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 762
26 <212> TYPE: PRT
27 <213> ORGANISM: Homo sapiens
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30 <221> NAME/KEY: misc_feature
31 <223> OTHER INFORMATION: Glycoprotein IIIa
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37 1               5                  10                  15
40 Leu Ala Val Ser Pro Met Cys Ala Trp Cys Ser Asp Glu Ala Leu Pro
41                 20                  25                  30
44 Leu Gly Ser Pro Arg Cys Asp Leu Lys Glu Asn Leu Leu Lys Asp Asn
45             35                  40                  45
48 Cys Ala Pro Glu Ser Ile Glu Phe Pro Val Ser Glu Ala Arg Val Leu
49         50                  55                  60
52 Glu Asp Arg Pro Leu Ser Asp Lys Gly Ser Gly Asp Ser Ser Gln Val
53 65                  70                  75                  80
56 Thr Gln Val Ser Pro Gln Arg Ile Ala Leu Arg Leu Arg Pro Asp Asp
57                 85                  90                  95
60 Ser Lys Asn Phe Ser Ile Gln Val Arg Gln Val Glu Asp Tyr Pro Val
61                 100                 105                 110
64 Asp Ile Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Lys Asp Asp Leu
65             115                 120                 125
68 Trp Ser Ile Gln Asn Leu Gly Thr Lys Leu Ala Thr Gln Met Arg Lys
69         130                 135                 140
72 Leu Thr Ser Asn Leu Arg Ile Gly Phe Gly Ala Phe Val Asp Lys Pro
73 145                 150                 155                 160
76 Val Ser Pro Tyr Met Tyr Ile Ser Pro Pro Glu Ala Leu Glu Asn Pro
77             165                 170                 175
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 80 Cys Tyr Asp Met Lys Thr Thr Cys Leu Pro Met Phe Gly Tyr Lys His
 81             180                 185                 190
 84 Val Leu Thr Leu Thr Asp Gln Val Thr Arg Phe Asn Glu Glu Val Lys
 85             195                 200                 205
 88 Lys Gln Ser Val Ser Arg Asn Arg Asp Ala Pro Glu Gly Gly Phe Asp
 89         210                 215                 220
 92 Ala Ile Met Gln Ala Thr Val Cys Asp Glu Lys Ile Gly Trp Arg Asn
 93 225                 230                 235                 240
 96 Asp Ala Ser His Leu Leu Val Phe Thr Thr Asp Ala Lys Thr His Ile
 97             245                 250                 255
100 Ala Leu Asp Gly Arg Leu Ala Gly Ile Val Gln Pro Asn Asp Gly Gln
101             260                 265                 270
104 Cys His Val Gly Ser Asp Asn His Tyr Ser Ala Ser Thr Thr Met Asp
105         275                 280                 285
108 Tyr Pro Ser Leu Gly Leu Met Thr Glu Lys Leu Ser Gln Lys Asn Ile
109     290                 295                 300
112 Asn Leu Ile Phe Ala Val Thr Glu Asn Val Val Asn Leu Tyr Gln Asn
113 305                 310                 315                 320
116 Tyr Ser Glu Leu Ile Pro Gly Thr Thr Val Gly Val Leu Ser Met Asp
117             325                 330                 335
120 Ser Ser Asn Val Leu Gln Leu Ile Val Asp Ala Tyr Gly Lys Ile Arg
121             340                 345                 350
124 Ser Lys Val Glu Leu Glu Val Arg Asp Leu Pro Glu Glu Leu Ser Leu
125         355                 360                 365
128 Ser Phe Asn Ala Thr Cys Leu Asn Asn Glu Val Ile Pro Gly Leu Lys
129     370                 375                 380
132 Ser Cys Met Gly Leu Lys Ile Gly Asp Thr Val Ser Phe Ser Ile Glu
133 385                 390                 395                 400
136 Ala Lys Val Arg Gly Cys Pro Gln Glu Lys Glu Lys Ser Phe Thr Ile
137             405                 410                 415
140 Lys Pro Val Gly Phe Lys Asp Ser Leu Ile Val Gln Val Thr Phe Asp
141             420                 425                 430
144 Cys Asp Cys Ala Cys Gln Ala Gln Ala Glu Pro Asn Ser His Arg Cys
145         435                 440                 445
148 Asn Asn Gly Asn Gly Thr Phe Glu Cys Gly Val Cys Arg Cys Gly Pro
149     450                 455                 460
152 Gly Trp Leu Gly Ser Gln Cys Glu Cys Ser Glu Glu Asp Tyr Arg Pro
153 465                 470                 475                 480
156 Ser Gln Gln Asp Glu Cys Ser Pro Arg Glu Gly Gln Pro Val Cys Ser
157             485                 490                 495
160 Gln Arg Gly Glu Cys Leu Cys Gly Gln Cys Val Cys His Ser Ser Asp
161         500                 505                 510
164 Phe Gly Lys Ile Thr Gly Lys Tyr Cys Glu Cys Asp Asp Phe Ser Cys
165     515                 520                 525
168 Val Arg Tyr Lys Gly Glu Met Cys Ser Gly His Gly Gln Cys Ser Cys
169 530                 535                 540
172 Gly Asp Cys Leu Cys Asp Ser Asp Trp Thr Gly Tyr Tyr Cys Asn Cys
173 545                 550                 555                 560
176 Thr Thr Arg Thr Asp Thr Cys Met Ser Ser Asn Gly Leu Leu Cys Ser
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177                    565                    570                    575
180 Gly Arg Gly Lys Cys Glu Cys Gly Ser Cys Val Cys Ile Gln Pro Gly
181            580                    585                    590
184 Ser Tyr Gly Asp Thr Cys Glu Lys Cys Pro Thr Cys Pro Asp Ala Cys
185            595                    600                    605
188 Thr Phe Lys Lys Glu Cys Val Glu Cys Lys Lys Phe Asp Arg Gly Ala
189            610                    615                    620
192 Leu His Asp Glu Asn Thr Cys Asn Arg Tyr Cys Arg Asp Glu Ile Glu
193 625                    630                    635                    640
196 Ser Val Lys Glu Leu Lys Asp Thr Gly Lys Asp Ala Val Asn Cys Thr
197            645                    650                    655
200 Tyr Lys Asn Glu Asp Asp Cys Val Val Arg Phe Gln Tyr Tyr Glu Asp
201            660                    665                    670
204 Ser Ser Gly Lys Ser Ile Leu Tyr Val Val Glu Glu Pro Glu Cys Pro
205            675                    680                    685
208 Lys Gly Pro Asp Ile Leu Val Val Leu Leu Ser Val Met Gly Ala Ile
209            690                    695                    700
212 Leu Leu Ile Gly Leu Ala Ala Leu Leu Ile Trp Lys Leu Leu Ile Thr
213 705                    710                    715                    720
216 Ile His Asp Arg Lys Glu Phe Ala Lys Phe Glu Glu Glu Arg Ala Arg
217            725                    730                    735
220 Ala Lys Trp Asp Thr Ala Asn Asn Pro Leu Tyr Lys Glu Ala Thr Ser
221            740                    745                    750
224 Thr Phe Thr Asn Ile Thr Tyr Arg Gly Thr
225            755                    760
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235 <223> OTHER INFORMATION: Segment of GPIIIa beta-3 subunit
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240 <222> LOCATION: (41)..(66)
241 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
244 <400> SEQUENCE: 2
246 Lys Leu Leu Leu Thr Thr His Asp Arg Lys Glu Phe Ala Lys Phe Glu
247 1                    5                    10                   15
250 Glu Glu Arg Ala Arg Ala Lys Trp Asp Thr Ala Asn Asn Pro Leu Tyr
251            20                   25                   30
W--> 254 Lys Glu Ala Thr Ser Thr Phe Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
255            35                   40                   45
W--> 258 Asn Ile Thr Tyr Arg Gly Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
259    50                   55                   60
W--> 262 Xaa Xaa
263 65
266 <210> SEQ ID NO: 3
267 <211> LENGTH: 66
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268 <212> TYPE: PRT
269 <213> ORGANISM: Mus musculus
271 <220> FEATURE:
272 <221> NAME/KEY: misc_feature
273 <223> OTHER INFORMATION: Segment of GPIIIa beta-6 subunit
276 <220> FEATURE:
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278 <222> LOCATION: (41)..(48)
279 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
282 <400> SEQUENCE: 3

284 Lys Leu Leu Val Ser Phe His Asp Arg Lys Glu Val Ala Lys Phe Glu
285 1               5                   10              15
288 Ala Glu Arg Ser Lys Ala Lys Trp Gln Thr Gly Thr Asn Pro Leu Tyr
289         20              25              30
W--> 292 Arg Gly Ser Thr Ser Thr Phe Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
293         35              40              45
296 Asn Val Thr Tyr Lys His Arg Glu Lys Gln Lys Val Asp Leu Ser Thr
297     50              55              60
300 Asp Cys
301 65

304 <210> SEQ ID NO: 4
305 <211> LENGTH: 66
306 <212> TYPE: PRT
307 <213> ORGANISM: Mus musculus
309 <220> FEATURE:
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311 <223> OTHER INFORMATION: Segment of GPIIIa beta-1 subunit
314 <220> FEATURE:
315 <221> NAME/KEY: misc_feature
316 <222> LOCATION: (41)..(66)
317 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
320 <400> SEQUENCE: 4

322 Lys Leu Leu Met Leu Ile His Asp Arg Arg Glu Glu Ala Lys Glu Glu
323 1               5                   10              15
326 Lys Glu Lys Met Asn Ala Lys Trp Asp Thr Gly Glu Asn Pro Ile Tyr
327         20              25              30
W--> 330 Lys Ser Ala Val Thr Thr Val Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
331         35              40              45
W--> 334 Asn Pro Lys Tyr Glu Gly Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
335     50              55              60
W--> 338 Xaa Xaa
339 65

342 <210> SEQ ID NO: 5
343 <211> LENGTH: 66
344 <212> TYPE: PRT
345 <213> ORGANISM: Mus musculus
347 <220> FEATURE:
348 <221> NAME/KEY: misc_feature
349 <223> OTHER INFORMATION: Segment of GPIIIa beta-5 subunit
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/673,302A

DATE: 04/24/2002
TIME: 14:08:10

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Output Set: N:\CRF3\04242002\I673302A.raw

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354 <222> LOCATION: (58)..(66)
355 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
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360 Lys Leu Leu Val Thr Ile His Asp Arg Arg Glu Phe Ala Lys Phe Gln
361 1               5                   10              15
364 Ser Glu Arg Ser Arg Ala Arg Tyr Glu Met Ala Ser Asn Pro Leu Tyr
365             20              25              30
368 Arg Lys Pro Ile Ser Thr His Thr Val Asp Phe Thr Phe Asn Lys Phe
369             35              40              45
W--> 372 Asn Lys Ser Tyr Asn Gly Thr Val Asp Xaa Xaa Xaa Xaa Xaa Xaa Xaa
373         50              55                      60
W--> 376 Xaa Xaa
377 65
380 <210> SEQ ID NO: 6
381 <211> LENGTH: 66
382 <212> TYPE: PRT
383 <213> ORGANISM: Mus musculus
385 <220> FEATURE:
386 <221> NAME/KEY: misc_feature
387 <223> OTHER INFORMATION: Segment of GPIIIa beta-2 subunit
390 <220> FEATURE:
391 <221> NAME/KEY: misc_feature
392 <222> LOCATION: (28)..(66)
393 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
396 <400> SEQUENCE: 6
398 Lys Ala Leu Thr His Leu Ser Asp Leu Arg Glu Tyr Arg Arg Phe Glu
399 1               5                   10              15
W--> 402 Lys Glu Lys Leu Lys Ser Gln Trp Asn Asn Asp Xaa Asn Pro Leu Phe
403             20              25              30
W--> 406 Lys Ser Ala Thr Thr Thr Val Met Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
407             35              40              45
W--> 410 Asn Pro Lys Phe Ala Glu Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
411         50              55                      60
W--> 414 Xaa Xaa
415 65
418 <210> SEQ ID NO: 7
419 <211> LENGTH: 66
420 <212> TYPE: PRT
421 <213> ORGANISM: Mus musculus
423 <220> FEATURE:
424 <221> NAME/KEY: misc_feature
425 <223> OTHER INFORMATION: Segment of GPIIIa beta-7 subunit
428 <220> FEATURE:
429 <221> NAME/KEY: misc_feature
430 <222> LOCATION: (41)..(66)
431 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
434 <400> SEQUENCE: 7
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/673,302A

DATE: 04/24/2002
TIME: 14:08:11

Input Set : A:\CO5043US.txt
Output Set: N:\CRF3\04242002\I673302A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:3; Xaa Pos.  41,42,43,44,45,46,47,48
Seq#:4; Xaa Pos.  41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65,66
Seq#:5; Xaa Pos.  58,59,60,61,62,63,64,65,66
Seq#:6; Xaa Pos.  28,41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65
Seq#:6; Xaa Pos.  66
Seq#:7; Xaa Pos.  41,42,43,44,45,46,47,48,61,62,63,64,65,66
Seq#:8; Xaa Pos.  5,17,19,20,21,23,25,26,27,28,34,36,37,39,40,41,42,43,44,45
Seq#:8; Xaa Pos.  46,47,48,49,51,52,54,55,56,57,58,59,60,61,62,63,64,65
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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/673,302A

DATE: 04/24/2002
TIME: 14:08:11

Input Set : A:\CO5043US.txt
Output Set: N:\CRF3\04242002\I673302A.raw

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L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:48
L:262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:64
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:32
L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:32
L:334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:48
L:338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:64
L:372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:48
L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:64
L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:16
L:406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:32
L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:48
L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:64
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:32
L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:48
L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:64
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:16
L:480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:32
L:484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:48
L:488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:64
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